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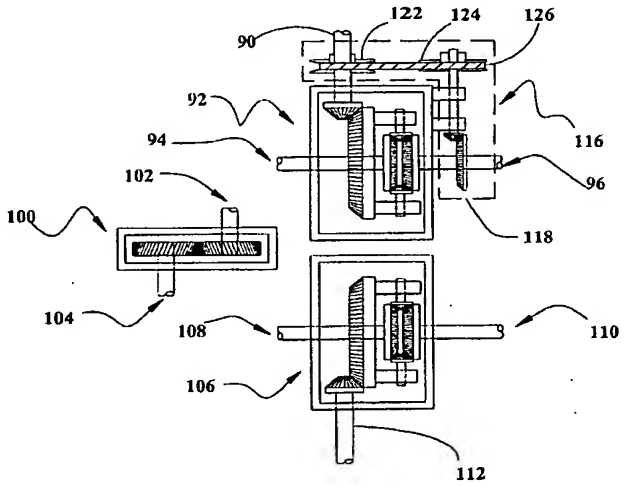
(54) Title: CONTINUOUSLY VARIABLE TRANSMISSION



(57) Abstract: A power transmission implementing continuously variable transmission using a succession of gear sets. A first constant ratio gear - set receives torque and rotation from a motor and a second constant ratio gear set provides torque and rotation to a driven device. These two gear - sets each employ three gear elements such that the first gear - set receives power in one shaft and provides power in two shafts. The second gear set receives power in two different shafts and provides power in one shaft. Two drive chains transmit rotation and torque from the first gear - set to the second gear - set, in between the two gear sets the rotation is reversed in one drive chain. A control over the total gearing ratio of the transmission is provided by transient application of power to modify the rotation rate of one branch. In one embodiment fluid couplings are employed for transmission of power in each drive chain.

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